PATENT COOPERATION TREATY

PCT

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's 5-135	or agent's file reference	FOR FURTHER A	CTION	See Form PCT/IPEA/416				
International application No. PCT/JP2004/002344		International filing dat 4 27.02.200		Priority date (day/month/year)				
International Patent Classification (IPC) or national classification and IPC G01N27/62, H01J49/10								
Applicant YAMANASHI TLO CO., LTD.								
	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 							
2. Ti	. This REPORT consists of a total of sheets, including this cover sheet.							
3. Th	3. This report is also accompanied by ANNEXES, comprising:							
a.	(sent to the appl	icant and to the International Bu	reau) a total of	sheets, as follows:				
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental							
b.	Box. b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))							
	, containing a sequence listing and/or tables							
	related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).							
4. Tł	4. This report contains indications relating to the following items:							
	Box No. I Ba	asis of the report						
	Box No. II Pr	iority						
	Box No. III No	on-establishment of opinion with	regard to novelty, invent	ive step and industrial applicability				
	Box No. IV La	ack of unity of invention						
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
	Box No. VI Certain documents cited							
	Box No. VII Co	ertain defects in the international	application					
	Box No. VIII Certain observations on the international application							
Date of sub	mission of the demand		Date of completion of the	is report				
Name and mailing address of the IPEA/JP			Authorized officer					
Facsimile No.			Telephone No.					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/002344 Box No. I Basis of the report With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item. This report is based on translations from the original language into the following which is the language of a translation furnished for the purposes of: international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.4) international preliminary examination (Rule 55.2 and/or 55.3) With regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the international application as originally filed/furnished the description: as originally filed/furnished received by this Authority on received by this Authority on the claims: _____as originally filed/furnished nos. as amended (together with any statement) under Article 19 received by this Authority on 06.09.2005 received by this Authority on the drawings: as originally filed/furnished sheets received by this Authority on sheets* received by this Authority on sheets* a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing. The amendments have resulted in the cancellation of: the description, pages _____ the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify): This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)). the description, pages __ the claims, nos. the drawings, sheets/figs the sequence listing (specify): any table(s) related to sequence listing (specify): If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/002344

Box		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1.	Statement				
	Novelty (N)	Claims	1-2	YES	
		Claims		NO	
Inventive step (IS)		Claims	1-2	YES	
		Claims		NO	
Industrial applicability (IA)		lity (IA) Claims	1-2	YES	
		Claims		NO	

- 2. Citations and explanations (Rule 70.7)
 - (1) Novelty and Inventive Step

The inventions set forth in claims 1 and 2 are novel and involve an inventive step in relation to the documents cited in the international search report.

None of the documents cited in the international search report indicates that electrification liquid droplets of water or a water/ethanol mixture solution are used as primary ions to ionize a biological sample. On the other hand, this feature offers the invention of this application the advantageous effect that problems, such as pollution of ion sources which may occur when using glycerin, and a deterioration in the S/N ratio which occurs when Ar⁺ and Xe⁺ are used, are avoided.

(2) Industrial Applicability

The inventions set forth in claims 1 and 2 are clearly industrially applicable.